

10th International Conference on Hard and Electromagnetic Probes of High-Energy Nuclear Collisions



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Low p_T direct photon in small systems at PHENIX experiment

PHENIX has observed in $A+A$ collision systems a large yield of low p_T direct photon, as an indication of a hot strongly-coupled system being formed.

In recent years, data from small systems have revealed evidence for collective behavior in small systems. In such a scenario, we expect that the matter formed in small system also radiates thermal photons.

PHENIX is in an ideal position to search for thermal photon in small systems like $p+Au$, $d+Au$ and $He+Au$. Recent results from most central $p+Au$ collisions show a hint of excess of thermal photons over the $p+p$ baseline.

In this poster, I will present the status of thermal photon measurements in small systems.

Collaboration (if applicable)

PHENIX

Track

Electroweak Probes

Contribution type

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